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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 32 Nov 18 DKILIT has been renamed APOLLIT
NEWS 33 Nov 25 More calculated properties added to REGISTRY
NEWS 34 Dec 02 TIBKAT will be removed from STN
NEWS 35 Dec 04 CSA files on STN

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AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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NEWS WWW CAS World Wide Web Site (general information)

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=> fil .eliz

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=> s phrixothrix and luciferase

L1 27 PHRIXOTHRIX AND LUCIFERASE

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 6 DUP REM L1 (21 DUPLICATES REMOVED)

=> d 1-6

L2 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

AN 2002:658669 HCAPLUS

DN 137:197517

TI Nucleic acid molecules encoding red and green emitting luciferases

IN Viviani, Vadim R.; Ohmiya, Yoshihiro

PA USA

SO U.S. Pat. Appl. Publ., 29 pp., Cont. of U.S. Ser. No. 516,958.

CODEN: USXXCO

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002119542	A1	20020829	US 2001-993874	20011114
PRAI	US 1999-388290	B2	19990901		
	US 2000-516958	B1	20000301		

L2 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS
AN 2001:269080 HCAPLUS
DN 134:277609
TI Luminescence assay system using luminescence reporter gene
IN Omiya, Katsuhiko; Ryufuku, Masayuki; Ono, Shoji; Takeuchi, Hideyuki
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001103956	A2	20010417	JP 1999-288932	19991012
	WO 2001027316	A1	20010419	WO 2000-JP7049	20001011
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	JP 1999-288932	A	19991012		

L2 ANSWER 3 OF 6 MEDLINE DUPLICATE 2
AN 2001151807 MEDLINE
DN 21092756 PubMed ID: 11162668
TI Thr226 is a key residue for bioluminescence spectra determination in beetle **luciferases**.
AU Viviani V; Uchida A; Suenaga N; Ryufuku M; Ohmiya Y
CS Department of Biochemistry, Shizuoka University, Shizuoka-shi, Japan.. viviani@fas.harvard.edu
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2001 Feb 9) 280 (5) 1286-91.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200103
ED Entered STN: 20010404
Last Updated on STN: 20010404
Entered Medline: 20010315

L2 ANSWER 4 OF 6 MEDLINE DUPLICATE 3
AN 2000440153 MEDLINE
DN 20403044 PubMed ID: 10946582
TI Bioluminescence color determinants of **Phrixothrix** railroad-worm **luciferases**: chimeric **luciferases**, site-directed mutagenesis of Arg 215 and guanidine effect.
AU Viviani V R; Ohmiya Y
CS Department of Molecular and Cell Biology, Harvard University, Cambridge, MA, USA.. viviani@fas.harvard.edu
SO PHOTOCHEMISTRY AND PHOTOBIOLOGY, (2000 Aug) 72 (2) 267-71.
Journal code: 0376425. ISSN: 0031-8655.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200009
ED Entered STN: 20000928
Last Updated on STN: 20000928
Entered Medline: 20000918

L2 ANSWER 5 OF 6 MEDLINE DUPLICAT
 AN 1999315203 MEDLINE
 DN 99315203 PubMed ID: 10387072
 TI Cloning, sequence analysis, and expression of active **Phrixothrix**
 . railroad-worms **luciferases**: relationship between bioluminescence
 spectra and primary structures.
 AU Viviani V R; Bechara E J; Ohmiya Y
 CS Department of Biochemistry, Faculty of Education, Shizuoka University,
 Japan.. viviani@fas.harvard.edu
 SO BIOCHEMISTRY, (1999 Jun 29) 38 (26) 8271-9.
 Journal code: 0370623. ISSN: 0006-2960.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 OS GENBANK-AF139644; GENBANK-AF139645
 EM 199907
 ED Entered STN: 19990730
 Last Updated on STN: 19990730
 Entered Medline: 19990722

L2 ANSWER 6 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE 5
 AN 93:643530 SCISEARCH
 GA The Genuine Article (R) Number: MC107
 TI BIOPHYSICAL AND BIOCHEMICAL ASPECTS OF PHENGODID (RAILROAD-WORM)
 BIOLUMINESCENCE
 AU VIVIANI V R; BECHARA E J H (Reprint)
 CS UNIV SAO PAULO, INST QUIM, DEPT BIOQUIM, POB 20780, BR-01498 SAO PAULO,
 BRAZIL
 CYA BRAZIL
 SO PHOTOCHEMISTRY AND PHOTOBIOLOGY, (OCT 1993) Vol. 58, No. 4, pp. 615-622.
 ISSN: 0031-8655.
 DT Article; Journal
 FS LIFE
 LA ENGLISH
 REC Reference Count: 45
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

=> d 2,4 ab

L2 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS
 AB A luminescence assay system is provided for detecting at least two kinds
 of luminescence derived from an organism by one process. The system
 comprises one luminescence with a max. luminescence wavelength at
 615-625nm at pH8 and a half width less than 60nm, and another luminescence
 with a max. luminescence wavelength at 460-550nm at pH8. The system is
 based on the oxidn. reaction of a luminescence substrate (e.g, luciferin)
 via an enzyme (e.g., **luciferase**) synthesized from a vector
 contg. a part of a luminescence gene of a luminescence organism (e.g.,
Phrixothrix). A method and a kit used for this luminescence assay
 system are also claimed.

L2 ANSWER 4 OF 6 MEDLINE DUPLICATE 3
 AB Chimeric proteins were produced using the green light-emitting
luciferase of **Phrixothrix vivianii** (PxGr: lambda max =
 548 nm) and the red light-emitting **luciferase** of
Phrixothrix hirtus (PxRe: lambda max = 623 nm). Constructs
 containing residues 1-344 of the red light-emitting **luciferase**
 with residues 345-545 of the green light emitting one emitted red light
 (PxReGr; lambda max = 613 nm), while the reverse emitted green light
 (PxGrRe; lambda max = 552 nm). From these results we conclude that the
 region 1-344 determines the color of bioluminescence (BL) in railroad-worm
luciferases, and that residues above 344 are not involved. The
 substitution R215S in the green light-emitting **luciferase** (PxGr)
 resulted in a approximately 40 nm redshift on the BL spectrum (lambda max
 = 585 nm) and an associated decrease of activity, whereas the same
 mutation in PxRe **luciferase** had little effect. Guanidine was
 shown to cause blueshifts in the BL spectra and stimulate the activity of

the red-emitting **luciferas** (from lambda max = 623 to lambda max = 600 nm) and in PxGr R215S (from lambda max = 585 to lambda max = 560 nm) mutant **luciferase**, but not in the green-emitting **luciferases**, suggesting that guanidine can simulate positively charged residues involved in BL color determination.

=> dis his

(FILE 'HOME' ENTERED AT 17:13:44 ON 12 DEC 2002)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 17:13:55 ON 12 DEC 2002

L1 27 S PHRIXOTHRIX AND LUCIFERASE
L2 6 DUP REM L1 (21 DUPLICATES REMOVED)

=> log h

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FULL ESTIMATED COST	22.11	22.32
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WEST Search History

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L1	PHRIXOTHRIX and luciferase	13	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 13 returned.**☐ 1. Document ID: US 20020119542 A1

L1: Entry 1 of 13

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119542

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119542 A1

TITLE: Nucleic acid molecules encoding red and green emitting luciferases

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Viviani, Vadim R.	Somerville	MA	US	
Ohmiya, Yoshihiro	Shimizu		JP	

US-CL-CURRENT: 435/189; 435/320.1, 435/325, 435/69.1, 435/8, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 2. Document ID: US 20020102687 A1

L1: Entry 2 of 13

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020102687 A1

TITLE: Luciferase and photoprotein

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Inouye, Satoshi	Yokohama-shi		JP	

US-CL-CURRENT: 435/189; 435/325, 435/8, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: US 20020090659 A1

L1: Entry 3 of 13

File: PGPB

Jul 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020090659

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090659 A1

TITLE: Detection and visualization of neoplastic tissues and other tissues

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 435/7.23; 424/9.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 20020004942 A1

L1: Entry 4 of 13

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004942

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004942 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bryan, Bruce	Beverly Hills	CA	US	

US-CL-CURRENT: 800/288

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6458547 B1

L1: Entry 5 of 13

File: USPT

Oct 1, 2002

US-PAT-NO: 6458547

DOCUMENT-IDENTIFIER: US 6458547 B1

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6436682 B1

L1: Entry 6 of 13

File: USPT

Aug 20, 2002

US-PAT-NO: 6436682

DOCUMENT-IDENTIFIER: US 6436682 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6416960 B1

L1: Entry 7 of 13

File: USPT

Jul 9, 2002

US-PAT-NO: 6416960

DOCUMENT-IDENTIFIER: US 6416960 B1

TITLE: Detection and visualization of neoplastic tissues and other tissues

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6247995 B1

L1: Entry 8 of 13

File: USPT

Jun 19, 2001

US-PAT-NO: 6247995

DOCUMENT-IDENTIFIER: US 6247995 B1

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6232107 B1

L1: Entry 9 of 13

File: USPT

May 15, 2001

US-PAT-NO: 6232107

DOCUMENT-IDENTIFIER: US 6232107 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the luciferases and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6152358 A

L1: Entry 10 of 13

File: USPT

Nov 28, 2000

US-PAT-NO: 6152358

DOCUMENT-IDENTIFIER: US 6152358 A

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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L1: Entry 11 of 13

File: USPT

Sep 5, 2000

US-PAT-NO: 6113886

DOCUMENT-IDENTIFIER: US 6113886 A

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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☐ 12. Document ID: US 5876995 A

L1: Entry 12 of 13

File: USPT

Mar 2, 1999

US-PAT-NO: 5876995

DOCUMENT-IDENTIFIER: US 5876995 A

TITLE: Bioluminescent novelty items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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☐ 13. Document ID: US 20020119542 A1

L1: Entry 13 of 13

File: DWPI

Aug 29, 2002

DERWENT-ACC-NO: 2002-618950

DERWENT-WEEK: 200266

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TITLE: Nucleic acid molecules encoding luciferases used as diagnostic tools

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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PHRIXOTHRX and luciferase

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